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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/591,016	08/29/2006	Atsushi Sano	129239	6640	
25944 7590 07/21/2009 OLIFF & BERRIDGE, PLC P.O. BOX 320850			EXAMINER		
			ESSEX, STEPHAN J		
ALEXANDRI	A, VA 22320-4850		ART UNIT	PAPER NUMBER	
			1795		
			MAIL DATE	DELIVERY MODE	
			07/21/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/591,016	SANO ET AL.	
Examiner	Art Unit	
STEPHAN ESSEX	1795	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

eamed	patent	term s	tajustmei	nt. See	3/ ("K I	./04(0).

Period fo	or Reply	
WHIC - Exte after - If NC - Failu Any	CHEVER IS LONGER, FROM THE nsions of time may be available under the provision SIX (6) MONTHS from the mailing date of this cor 0 period for reply is specified above, the maximum or to reply within the set or extended period for rep	FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, MAILING DATE OF THIS COMMUNICATION. No 37 CFR 1-1360. In no event, however, may a reply be timely filed munication. No 37 CFR 1-1360. In no event, however, may a reply be timely filed munication. In the communication of the communication of the communication. In the communication of the communication of the communication of the communication. In the communication of the communication.
Status		
2a)□	• • • • • • • • • • • • • • • • • • • •	led on <u>4/29/2009.</u> 2b) This action is non-final. n for allowance except for formal matters, prosecution as to the merits is tice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Disnosit	ion of Claims	
5)□ 6)⊠ 7)□	Claim(s) 1-8 is/are pending in the a 4a) Of the above claim(s) 8 is/are v Claim(s) is/are allowed. Claim(s) is/are allowed. Claim(s) is/are objected to. Claim(s) are subject to restr	vithdrawn from consideration.
Applicat	ion Papers	
10)🛛	Applicant may not request that any ob- Replacement drawing sheet(s) including	he Examiner. 2006 is/are: a)⊠ accepted or b)⊟ objected to by the Examiner. iection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). ng the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). to by the Examiner. Note the attached Office Action or form PTO-152.
Priority (ınder 35 U.S.C. § 119	
a)		n for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). y documents have been received. y documents have been received in Application No s of the priority documents have been received in this National Stage ional Bureau (PCT Rule 17.2(a)). ion for a list of the certified copies not received.
Attachmen	t(s)	
1) 🛛 Notic	e of References Cited (PTO-892)	4) Interview Summary (PTO-413)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO/SE/CS)

Paper No(s)/Mail Date See Continuation Sheet.

Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application. 6) Other:

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :8/29/2006, 6/20/2009, 9/27/2007.

DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of Group I, claims 1-7 in the reply filed on April 29, 2009 is acknowledged. The traversal is on the ground(s) that the "Office Action [mailed April 10, 2009] asserts that claims in Groups I and II have different reactants and solvents and there have different technical features." This is not found persuasive because the aforementioned assertion was not presented in the Office Action mailed April 10, 2009. Applicants further argued that "the Office Action [mailed April 10, 2009] does not establish that each and every element of the independent claim 1 is known in the prior art." The following rejection shows that every element of independent claim 1 is known in the prior art. Accordingly, claims 1 and 8 lack a common special technical feature and the lack of unity of invention is determined a posteriori.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States. Application/Control Number: 10/591,016

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Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Sotomura et al. (hereinafter "Sotomura") (U.S. Pub. No. 2003/0091889A1).

Regarding claims 1-3 and 7, Sotomura teaches a method of making a composite electrode for use as an oxygen electrode or air electrode (cathode) in a fuel cell (see paragraph 1). The composite electrode contains an electrochemical catalyst A and an electrochemical catalyst B, wherein electrochemical catalyst A and/or the electrochemical catalyst B can be deposited by an electrochemical method such as a potential sweep method (see paragraph 54). Sotomura discloses an example of such a method wherein cobalt-4,4',4",4"'-tetraamino phthalocyanine (CoTAPc) is dissolved in dimethyl sulfoxide (solvent) in order to form an electrochemical catalyst layer of p-CoTAPc (see paragraphs 58 and 59).

Sotomura does not explicitly teach providing a potential higher than 1.3 V or 1.6 V or less with reference to a standard hydrogen electrode. However, it is the position of the examiner that providing such a potential is inherent given that Sotomura teaches an identical catalyst formed in an otherwise identical method to that of the instant application. A reference which is silent about a claimed invention's features is inherently anticipatory if the missing feature is necessarily present in that which is described in the reference. Inherency is not established by probabilities or possibilities. See *In re Robertson*, 49 USPQ2d 1949 (1999).

Regarding claims 4-6, Sotomura teaches that electrochemical catalyst A may comprise metal complexes such as metal phthalocyanines or metal porphyrins having a

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porphyrin ring such as iron phthalocyanine, cobalt phthalocyanine, copper phthalocyanine, or manganese phthalocyanine (see paragraph 39).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to STEPHAN ESSEX whose telephone number is (571) 270-7866. The examiner can normally be reached on Monday - Friday, 7:30-5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sines can be reached on (571) 272-1263. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Brian J. Sines/ Supervisory Patent Examiner, Art Unit 1795